

**RESTRICTED USE PESTICIDE****Due to High Acute Toxicity and Toxicity to Wildlife**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

# Nemacur<sup>®</sup> 15% Granular

## Systemic Insecticide - Nematicide

For effective control of nematodes in certain field, fruit and vegetable crops.

**ACTIVE INGREDIENT:**

Ethyl 3-methyl-4-(methylthio)phenyl -

(1-methylethyl)phosphoramidate ..... 15%

INERT INGREDIENTS ..... 85%

100%

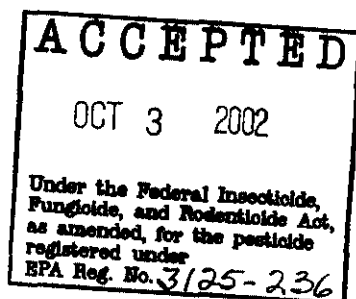
EPA Reg. No. 3125-236

Net Weight \_\_\_\_ Pounds

**STOP - Read the label before use.****Keep out of reach of children.****POISON****DANGER****PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

**FIRST AID**

Contains an organophosphate that inhibits cholinesterase.

**If swallowed**

- Vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz or 15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear.
- Call a poison control center or doctor immediately for further advice.
- Do not give anything by mouth to an unconscious person.

**If on skin or clothing**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

**If in eyes**

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**If inhaled**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

In case of emergency call toll free the Bayer Kansas City Emergency Response Telephone No. 800-414-0244. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

**Note To Physician: ANTIDOTE** - Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine. Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

2/5

**SYMPTOMS OF POISONING:** A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Fatal if swallowed. May be fatal if inhaled. Harmful if absorbed through the skin. Causes eye irritation. Do not breathe dust. Avoid contact with skin, eyes, or clothing.

Do not contaminate feed or food. Keep out of the reach of children. Not for use or storage in or around the home.

### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate and vitron. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

**Mixers, loaders, applicators and other handlers must wear:**

- coveralls over long-sleeved shirt and long pants,
- chemical-resistant gloves,
- chemical resistant footwear plus socks,
- chemical-resistant headgear (if overhead exposure),
- A NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R or P or He prefilter.

In addition, mixers, loaders and cleaners of equipment must wear a chemical-resistant apron.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering controls statements:** When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### User Safety Recommendations:

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Cover, incorporate, or pick up spilled granules at row ends or turn areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

**Ground Water Advisory:** Fenamiphos is known to leach through soil and has been found in ground water as a result of agriculture use. Users are advised not to apply in areas where soils are permeable, particularly where ground water is used for drinking water. Consult with the pesticide state lead agency for information regarding soil permeability and aquifer vulnerability in your area.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

**Exception:** If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated areas without the 48-hour restriction if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls worn over long-sleeve shirt and long pants,
- chemical-resistant gloves made of any waterproof material,
- chemical-resistant footwear plus socks, and
- chemical-resistant headgear (if overhead exposure)

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated area.

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using NEMACUR 15% Granular systemic insecticide-nematicide.

**CONDITIONS OF SALE:** THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL

DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

Consult your State Agricultural Experiment Station or Extension Service Specialist or Bayer representative for guidance on the selection of dosage rates and timing of applications appropriate for your specific crop and pest. State regulations may contain additional restrictions or requirements. Check the "Remarks" and "Restrictions" sections of this label for additional directions.

Check equipment calibration frequently.

**Incorporation Recommendations:** Unless otherwise specified, NEMACUR 15% Granular must be incorporated into the soil for optimum results. Incorporation may be accomplished by irrigation or mechanical equipment. For applications made at planting, the action of some planters during the planting operation may provide adequate incorporation. When utilizing planters which do not provide adequate incorporation of NEMACUR 15% Granular into the soil, additional incorporation may be achieved by use of equipment specifically designed for incorporation purposes behind the planter. Precautions should be taken to avoid disturbing seed or transplant replacement.

RECOMMENDED APPLICATIONS		
CROP	PEST	DOSAGE NEMACUR 15% G
Peanuts	Nematodes Thrips (early season reduction)	11 to 18.7 oz for any row spacing (or 10 to 17 lb per acre on 36-inch rows)

Apply specified dosage per 1000 ft of row as a 12-inch band at planting. Mechanically incorporate the granules into the top 2 inches of soil immediately after application and prior to planting. Do not make more than one application per crop season. Do not exceed 17 lb per acre per crop season regardless of row spacing or formulation used. ON NARROW ROW CROPS, DO NOT ALLOW BANDS TO OVERLAP.

Use the high rate in fields with high populations of nematodes, in fields where root-knot species other than southern root-knot, *Meloidogyne incognita*, are present or in fields having a history of serious nematode damage.

Do not feed or graze green peanut vines or peanut vine hay. Do not hog down treated peanut fields.

RECOMMENDED APPLICATIONS		
CROP	PEST	DOSAGE NEMACUR 15% G
<b>Vegetables</b> Bok Choy (direct seeded only) (California only)	Nematodes	14.7 to 18.4 oz per 1000 ft of row for any row spacing

Apply specified dosage in a 12- to 15-inch band over the row and incorporate mechanically immediately after application and prior to planting. Refer to the table below for specific band width application rates. Treatment may be applied immediately before or at planting of direct seeded crop. Do not make more than one application per crop season. Do not exceed 30 lb per acre per crop season regardless of row spacing. ON NARROW ROW CROPS, DO NOT ALLOW BANDS TO OVERLAP.

Bandwidth	oz/1000 ft of Row
12"	14.7
15"	18.4

Cabbage (includes tight-heading varieties of Chinese direct seeded and transplanted) (Except cabbage grown for seed)	Nematodes	7.3 to 18.4 oz per 1000 ft of row for any row spacing
Brussels sprouts (transplanted) (Except brussels sprouts grown for seed)		

Apply specified dosage in a 6- to 15-inch band over the row. Refer to table below for specific band width application rates. Application may be made prior to planting, during planting, after planting but prior to crop emergence (direct seeded cabbage), or immediately following transplanting. Treat a minimum band width of 6 inches per row for multiple rows on a single bed or a minimum 12-inch band width for a single row per bed. Utilize wider band width in fields with a history of nematode damage. Incorporate mechanically. On narrow row spacing, do not allow bands to overlap. Do not treat more than 50% of the total field area. Do not make more than one application per crop season. Do not exceed 30 lb (4.5 lb active) per acre per season regardless of row spacing.

Bandwidth	oz/1000 ft of Row
6"	7.3
7"	8.6
8"	9.8
9"	11.0
9.5"	11.6
10"	12.2
12"	14.7
15"	18.4

Eggplant	Nematodes	14.7 oz (or 13.3 lb per acre for 36-inch rows)
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Apply specified dosage per 1000 ft of row in a 12-inch band over the row at transplanting and immediately incorporate the granules mechanically into the soil. Do not make more than one application per crop season. Do not exceed 13.3 lb per acre per season regardless of row spacing or formulation used. ON NARROW ROW CROPS, DO NOT ALLOW BANDS TO OVERLAP.

**RECOMMENDED APPLICATIONS**

CROP	PEST	DOSAGE NEMACUR 15% G															
<b>Vegetables Continued</b> Garlic	Bulb and Stem Nematode	9.2 to 18.4 oz/1000 ft of planting furrow for any row spacing (15 to 30 lb per acre on 40-inch beds with two seed lines [rows] per bed)															
Apply specified dosage in-furrow with the garlic seed (cloves) at planting. For best results, plant the crop within 7 to 10 days after cracking (seed preparation). Do not make more than one application per crop season. Do not exceed 30 lb per acre per crop season regardless of row spacing.																	
Okra (Except California)	Nematodes	14.7 to 18.4 oz (or 12 to 15 lb per acre on 40 inch rows)															
Apply specified dosage per 1000 ft of row as a 12- to 15-inch band at planting. Mechanically incorporate the granules into the soil. Use low rate in a 12-inch band. Use high rate in a 15-inch band. Do not make more than one application per crop season. Do not exceed 15 lb per acre per crop season regardless of row spacing.																	
<table> <tr> <td><b>BAND WIDTH</b></td><td><b>12-inch</b></td><td><b>15-inch</b></td></tr> <tr> <td><b>(40-inch row spacing)</b></td><td><b>14.7 oz</b></td><td><b>18.4 oz</b></td></tr> <tr> <td></td><td>1000 ft of row</td><td>1000 ft of row</td></tr> <tr> <td></td><td>or</td><td>or</td></tr> <tr> <td></td><td>12 lb/acre</td><td>15 lb/acre</td></tr> </table>			<b>BAND WIDTH</b>	<b>12-inch</b>	<b>15-inch</b>	<b>(40-inch row spacing)</b>	<b>14.7 oz</b>	<b>18.4 oz</b>		1000 ft of row	1000 ft of row		or	or		12 lb/acre	15 lb/acre
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	or	or															
	12 lb/acre	15 lb/acre															
ON NARROW ROW CROPS, DO NOT ALLOW BANDS TO OVERLAP.																	
Non-Bell Peppers (California, Georgia and Puerto Rico only)	Nematodes	10 to 14.7 oz for any row spacing (or 9.1 to 13.3 lb per acre on double-row beds spaced 72 inches apart)															
Apply specified dosage per 1000 ft of row in a 12-inch band over the row at planting and mechanically incorporate the granules into the soil. Use the high rate in fields with high populations of nematodes or in fields having a history of serious nematode damage. Do not make more than one application per crop season. Do not exceed 13.3 lb per acre per season regardless of row spacing.																	
<b>FRUIT</b> Strawberries	Nematodes	14.7 to 22 oz for any row spacing (or 20 to 30 lb per acre on double-row beds spaced 48 inches apart)															
Apply specified dosage per 1000 ft of row in a 12- to 18-inch band over the row and incorporate immediately by cultivation. Do not apply more than one application per crop season. Do not exceed 30 lb per acre per crop season regardless of row spacing or formulation used. Do not apply within 110 days of harvest. Apply by ground equipment only.																	
<table> <tr> <td><b>BAND WIDTH</b></td><td><b>12-INCH</b></td><td><b>18-INCH</b></td></tr> <tr> <td><b>(48-inch rows)</b></td><td><b>14.7 oz/1000 ft</b></td><td><b>22 oz/1000 ft</b></td></tr> <tr> <td></td><td>or</td><td>or</td></tr> <tr> <td></td><td>20 lb/acre</td><td>30 lb/acre</td></tr> </table>			<b>BAND WIDTH</b>	<b>12-INCH</b>	<b>18-INCH</b>	<b>(48-inch rows)</b>	<b>14.7 oz/1000 ft</b>	<b>22 oz/1000 ft</b>		or	or		20 lb/acre	30 lb/acre			
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	or	or															
	20 lb/acre	30 lb/acre															
Use the maximum band width and rate in fields with high populations of nematodes or in fields having a history of serious nematode damage.																	

**RECOMMENDED APPLICATIONS**

CROP	PEST	DOSAGE NEMACUR 15% G	
<b>FRUIT</b> Non-bearing Strawberry nursery stock	Nematodes	17 oz for any row spacing (or 23.1 lb per acre on double-row beds spaced 48 inches apart)	
Apply specified dosage per 1000 ft of row in a 12-inch band over the row immediately after transplanting and incorporate with cultivation equipment. Apply a second application in a 12-inch band over the row 8 weeks after transplanting. Incorporate by cultivation immediately following application. Do not apply more than two applications to non-bearing nursery stock. Use only on strawberry nursery stock that will not be harvested for fruit within 20 months after application. Do not exceed 46.2 lb per acre per season regardless of row spacing or formulation used.			
Banana (Hawaii only)	Nematodes Including burrowing and root-knot	11-1/10 to 33-1/3 pounds/A	
<b>BAND:</b> Apply specified dosage per acre to the soil in a band on each side of the pseudostem using a total band width equal to 50% of the row spacing.* Refer to table below for specific rates based on band width and treatment interval. Do not apply product in less than a 4-foot total band width. Immediately incorporate the product into the top 2 inches of soil with mechanical equipment. Repeat applications may be made at 3- to 6-month intervals.  Do not apply during drought or the dry season unless crop is being irrigated. Do not apply using backpack type equipment. Do not apply more NEMACUR 15% G per acre per year than is specified in the rate table below. Treatments may be applied up to 15 days prior to harvest.			
<b>Pounds of NEMACUR 15% G per Acre</b>			
Band Width (ft)	3 Month (Interval)	6 Month (Interval)	Maximum per Year
4	11-1/10	22-1/54	44-2/5
5	13-7/8	27-3/4	55-1/2
6	16-2/3	33-1/3	66-2/3
* For example: if rows are on 12-foot centers, apply NEMACUR 15% G in a 6-foot band width per row (3 feet on each side of the pseudostem).			
Banana Plantains (Puerto Rico only)	Nematodes Banana root borer	20 to 30 grams/plant	
<b>NEWLY PLANTED FIELDS:</b> Apply 20 to 30 grams per production unit to the soil surface after the planting hole has been filled. Granules (20 to 30 grams) may also be applied by mixing with the soil used to fill the hole after planting the corn. Make subsequent applications of 20 to 30 grams per production unit at 6-month intervals. In uninfested fields on virgin soils or where plantings follow flood or bare-ground, the initial application may be delayed until pest populations begin to increase to damaging numbers.  <b>ESTABLISHED PLANTATIONS:</b> For infested established plantations, an initial treatment of 20 to 30 grams should be made in a 1 to 2 foot band around the base of each production unit. The initial application should be followed by applications of 20 to 30 grams per production unit at 6-month intervals.			
<b>NOTE:</b> Apply at the beginning and toward the end of the rainy season. Do not apply during extreme drought unless the crop is irrigated regularly.			

## RESTRICTIONS

Any food crop not specified on this label may be planted into treated areas 120 days after the last application. Any cover crops that are planted during the 120 day period must be plowed under and not grazed.

Do not use on other crops. Use only according to label directions.

Do not apply this product with a knapsack or similar equipment that is placed on the user's body. Apply this product with a tractor-drawn or push spreader only.

When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Soil Conservation Service for recommendations in your use area.

Do not apply within 100 feet of the following aquatic areas: lakes, reservoirs, rivers, permanent streams, marshes, natural ponds and estuaries.

Do not cultivate within 10 feet of an aquatic area to allow growth of a vegetative filter strip.

After May 31, 2005, do not apply to hydrologic soil group A soils that are excessively drained and predominately sand or loamy sand such as soils in the suborder psamments with shallow water tables (less than 50 feet deep). These classifications and soil taxonomy refer to USDA definitions. If you are unsure of the type of soil you are treating, please consult with you county's extension agent or the product manufacturer.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response Telephone No. is 800-414-0244, or contact Chemtrec at 800-424-9300.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Do not use container in connection with food, feed, or drinking water. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**D - 9445 052202**

Bayer Corporation  
Crop Protection  
Box 4913  
Kansas City, MO 64120-0013  
(800) 842-8020  
<http://uscrop.bayer.com>



Nemacur 15% G 5